



A.D. 1868, 1st OCTOBER. N^o 3010.

S P E C I F I C A T I O N

OF

JOHN MURRAY & OLIVER HARLING.

CONSUMING SMOKE IN FURNACES.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

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1869.



A.D. 1868, 1st OCTOBER. N° 3010.

Consuming Smoke in Furnaces, &c.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by John Murray and Oliver Harling at the Office of the Commissioners of Patents, with their Petition, on the 1st October 1868.

We, JOHN MURRAY, of Keighley, in the County of York, Designer,
5 and OLIVER HARLING, of Thwaites, near Keighley, aforesaid, Mechanic,
do hereby declare the nature of the said Invention for “IMPROVED
MEANS OR APPARATUS FOR CONSUMING OR PREVENTING THE ESCAPE OF SMOKE
FROM STEAM BOILER AND OTHER FURNACES, AND COLLECTING FOR UTILIZATION
THE WASTE PRODUCTS OF COMBUSTION OF THE FUEL,” to be as follows :—

10 This Invention consists in the application and use of a fan placed in
any convenient part of or in connection with the flue leading from the
boiler or furnace to the chimney, and placed so that it will produce a
draught to draw away the smoke and gases therefrom, and force the
same through or into water supplied to a tank or vessel placed in the
15 bottom of the chimney or flue. One or more jets of steam are to be
inserted into the flue or pipe leading from the furnace to the fan, and
from the fan to the water tank. Also a rose water jet or perforated ball
is to be inserted into the chimney or its flue at any desirable distance

Murray & Harling's Method of Consuming Smoke in Furnaces, &c.

above the water tank so as to obtain a shower or spray of water to cool the gases or vapours that arise from the water tank. By this means the smoke or solid products of combustion will be condensed and lodged in the water tank, and may be drawn or run off into another tank or tanks 5 placed either inside or outside the chimney or flue as most convenient, and from which the said products may be collected, to be afterwards utilized or applied to any useful purposes to which they may be found suitable, and are thereby prevented from escaping into the atmosphere.

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